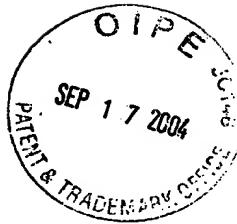




Consensus	MKWLVLLGLY	AESECIVKIP	LR., KTMR, T	LS, KN, LNNF	LKE, AYRLSQ	IS, RGSNLT-	60 (2)
b0PAG 8	.....	.....	.....	TKM, .QEA	IRE, QL, ED,	.D, QPHS, ..	H, DPDKKFS, 59
b0PAG 2	.....	.....	.....	KKM, .L, E,	.RE, .L, ..	.E, Q, .K	N---D, KI, .. 56
b0PAG12	.....	.....	.....	KM, .L, E,	.RE, .L, ..	.E, R, .K	K---D, KI, .. 56
b0PAG11	.....	.....	.....	TKT, .EI	WRE, KL, .S,	.E, Q, N, M, D	D, ASDPK, S, 59
b0PAG 9	I.....	.....	.....	QV, .K,	.G, .M, K,	.HP, ..	F, ..
b0PAG10	.....	.....	.....	QM, .E,	.RERHL, T,	SE, HP, N, ..	KAANDQ, IIY 60
b0PAG 4	.....	.....	.....	RV, .TK,	.G, .M,	V, .H, ..	F, ..
b0PAG 6	.....	.....	.....	RV, .NA	I, G, .T, I	.H, .. P,	F, ..
b0PAG 1	.....	.....	.....	RL, .NV	V, G, .M,	.H, .S, ..	F, ..
b0PAG 3	DD.....	.....	.....	RV, .N,	V, G, .I, I	.HV, ..	F, ..
b0PAG 5	.....	L	TS, .IL,	TKV, .K,	.E, .M,	Q, ..	S, .. I, ..
b0PAG 7	.....	.....	.....	RV, .K,	.G, .M, ..	DP, .. H	F, ..
▼ (1)							
Consensus	~HPLRNI.D.	~YVGNITIGT	PQEFAQVFD	TGSSDLWVPS	I.C.S.AC.T	H.RFRH, .SS	120 (62)
b0PAG 8	S, Q, K, FQNA	V, F, T, .....	.....	.....	VD, Q, PS, SK	K, DPQK, T	119
b0PAG 2	I, ....YL, T	A, .....	.....	AN,	T, T, P, Y,	.KT, NPQN, ..	116
b0PAG12	I, ..K, YL, M	A, .....	.....	A,	S, V, P, Y,	.KT, NLHN, ..	116
b0PAG11	T, ....AL, M	A, .....	.....	K, R,	K, I, P, H,	.IT, D, HK, ..	119
b0PAG 9	I, ....MNL	V, .....	.....	.....	FCTM, P, SA	PVW, .QLQ, ..	118
b0PAG10	H, ..SYK, F	S, I, ..N	.....	.....	Y, Q, SS, YK	NS, VPCN, ..	120
b0PAG 4	I, ....R, F	?	.....	I,	F, N, ST, SK	D, .. LE, ..	119
b0PAG 6	.....	R, L	F,	I,	F, N, SS, AA	V, HQ, ..	118
b0PAG 1	T, ....K, L	V, M, .....	.....	A,	DF, T, P, S,	V, .. LQ, ..	119
b0PAG 3	T, ....K, L	I, .....	.....	F,	DF, T, R, .S,	V, .. LQ, ..	119
b0PAG 5	I, ....M, M	V, .. K	.....	E,	VF, P, S, .S,	I, .. LE, ..	119
b0PAG 7	I, ....R, I	F, .....	.....	I,	D, N, TS, A,	V, .. LQ, ..	119

FIG. 1A



consensus	TFR.TNKTF.	I.YGS6.MKG	.L.,DTVRIG	.LVSTDQPF6	LS,EE-,GF,	....,DGVLG	180 (120)
b0PAG 8	QPL.QKIE	LV.....T...	V.GS..,IQ..	N..IVN.I..	QNQSS.VL	EQVPY..I..	179
b0PAG 2	S.EVGSPIT	.F.....IIQ.	F.GS.....	N..PE.S..	.L..Y..D	SLP.F..I..	174
b0PAG12	S.GQ.HQPI5	S..P.IIQ.	F.GS.....	N..LK.S..	.Q..Y..D	GAP.F.....	174
b0PAG11	..L.RRP.H	L.....M.N.	V.AY.....	K.....	.LQQ.F..D	NAP.F.....	177
b0PAG 9	..QP.....T	T.....S...	F.AY.....	D.....	.VV..Y.LE	GRN.Y.....	176
b0PAG10	..KA...I.N	TN.TATSI..	Y.VY.....	N..VA..	.LK..F..D	DVP.F..I..	178
b0PAG 4	..LSRR..S	T.....RIEA	LWVH.....	D.....Q..	.CL...S..E	GMR.F.....	177
b0PAG 6	..P.....R	T.....R...	VWVH.....	D.....	.CJKD.S..K	GIP.F..I..	176
b0PAG 1	..L.....R	T.....R...	VWVH.....	N.....	.I..Y..E	GRI.Y.....	177
b0PAG 3	..L.....R	T.....R...	VWAH.....	D.....	.V..Y..E	GRAY.....	178
b0PAG 5	SGL.Q...S	T.....ST..	F.AY.....	D.L...E..	.M..H..E	DLPF-....	177
b0PAG 7	..P.....R	I.....R.N.	VIAV.....	D.....	.V..Y..A	HKRF-..I..	177
consensus	L.YP..S..G	AIPIDNLKN	QGAISEPVFA	FLYS...EG	SVVMFGGVDH	YYKGELNW,	240 (180)
b0PAG 8	A..SLAIQ.	TT.V.....	REV.....	SRPENI	T.....	T.H..K.Q.I	239
b0PAG 2	.AF.AMGIED	T.....WS	H..F.....	NTNKP..	.....	R.....I	234
b0PAG12	A..SI.IK.	I.....WS	..F.....	NTCQP..	.....	R.....I	234
b0PAG11	S..SLAVP.	T.....K..Q	.....I..	TRKEN..	..L..L.....	S.H..K..I	237
b0PAG 9	N..NI.FS.	.....	.....	KNKQ..	.....	Q.....I	236
b0PAG10	6.RRTIT.	N.....WK	..V.....	SQKEN..	.....NR	A.....V	238
b0PAG 4	S.TNI.PS.	YK...	E.....	KDER..	.....A..	R.....I	237
b0PAG 6	S..NKTFS.	F.....K...	E.....	KDKQ..	.....	R.....V	236
b0PAG 1	N..NI.FS.	.....K...	,R.....	KDER..	.....	R..E.....V	237
b0PAG 3	N..NI.FS.	.....	.....	IL..KDEQ..	.....	R..E.....V	238
b0PAG 5	N..DM.FIT	T.....	..F.....	..GKVK--.	.....	T.....V	235
b0PAG 7	N.WNL.WSK	M.....K...	E.....	.....NI	.....	-----	213

FIG. 1B



Consensus	P..Q.G.W..	.MDRISM.R.	VIACS.GC.A	LVDTGTS.I.	GP.RLV.NI.	KLI.A.P-.G	300 (239)
b0PAG 8	.VT.AR.F.QV	A.SSMT.NGN	.VG..Q..Q..	V.....LLV	..TH..TD..L	...NPN.ILN	299
b0PAG 2	.VS.TSH.QI	S.NN...NGT	.T..C..E..	L.....M..Y	..TK..T..H	..MN.RL.EN	293
b0PAG12	.VS.TRY.QI	S.N...NGN	.T..R..Q..	L.....M..H	..T..IT..H	..MN.RH.Q..	293
b0PAG11	.VS.TKS.LI	TV.....NGR	..G.EH..E..	L..H	..A.P.T..Q	.F.H.M..Y..	296
b0PAG 9	.LIEA.E.RV	H.....K..T	...D..E..	H.....H..E	..G..N..H	R..RTR..FD	295
b0PAG10	.VS.V.S.HI	NI..S...NGT	.V..KR..Q..	SWIR..-RLSA	W.K..I.SK..Q	...H.R..ID	296
b0PAG 4	.LMKA.D.SV	H.....K..K	...G..K..	S..D..V	..ST..N..W	...G.T..Q..	296
b0PAG 6	.LI.V.D.FV	H....TT.K..K	...D..K..	D..V	..ST..N..W	...R.R..L..	295
b0PAG 1	.LI.A.D.SV	H.....E..K	...D..K..	D..V	..R..N..H	R..G.I..R..	296
b0PAG 3	.LIEA.D.II	H.....K..K	...GS..E	I.....A..E	..RK..NK..H	...G.R..RH	297
b0PAG 5	.LI.A.E.SL	H.....K..K	...G..E	FY.....L..L	..R..N..Q	...G.T..Q..	294
b0PAG 7	-----	-----T.N.E	...E..A..	S..N..Q	..G..ID..Q	RI.G.T..R..	257
Consensus	SE..VSC.AV	..LPSIIIFTI	NGI.YPVP..	AY1.KDSRG.	C...F.....	-----S..ET	360 (295)
b0PAG 8	D.QML..D.I	NS..TLLL..	...V....PD	Y..QRF.ERI	.FIS.QGGTE	ILKNLGTS..	359
b0PAG 2	..YY..D..	KT..PV..N..	...D..LRPQ	..I.IQN-S	RSV.QGGTE	...N..SLN..	348
b0PAG12	..YY..D..	KT..PV..N..	...D..L..PQ	..T.AQN-F	LSI.HGGTE	...T..SP..	348
b0PAG11	..YML.PVI	SI..PV..	...D..S..RE	..Q..I.NSL	LST.HGD-D	...T..---DQ	348
b0PAG 9	.KHY..F.T	KY....T.I.	...K..MTAR	..F.....R	YSA.KENTV	...R.TSR..	351
b0PAG10	R.HV..Q.I	GT..PAV..	...D..AQ	QSL.G-Y	FSN.LVRPQ	RVNES..	352
b0PAG 4	..HY..S..	NS.....	KSNN.R..GQ	..L.....R	FTA.KGHQQ	...S..ST..M	352
b0PAG 6	PQYF..S..	NT.....	...N..RL.AR	..H.....R	YTA.KEHRF	...S..PI..	351
b0PAG 1	..HY.P.SE..	NT.....V	...N....GR	..L..D..R	YTT.QENRV	...S..ST..	352
b0PAG 3	.KYYI..S..	NT.....	...N..C..GR	..V..R	YSM.QENKV	...S..ST..	353
b0PAG 5	..HYI..F..	IS.....	...NI..AR	..H.....H	YPT.KENTV	...ST..T..	350
b0PAG 7	.KYY..S..	NI.....	...VN..PR	..L.....H	YTT.KEKRV	...RR..T..S	313

FIG. 1C



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Consensus	WILGDVFLRL	YFSVFDRGND	RIGLA.AV
b0PAG 8Y.....NP,A
b0PAG 2I.....QK,RP,..
b0PAG12G.....QR,..	S.....-Q,..
b0PAG11	.....	.....Y.....N	.....P,..
b0PAG 9	.....A,..R	.....	.....R,..
b0PAG10NP,..
b0PAG 4RK,TK,
b0PAG 6L.....RR,..
b0PAG 1Y,.....R,..
b0PAG 3VR,..
b0PAG 5QV-
b0PAG 7V,..E,.....RR,..

FIG. 1D



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Inventors: Roberts et al.
Replacement Sheet

Consensus **MKWLVLLGLYAESECIVKIP** LRRVKTMRKT LSGKNMMLNNF LKEHPYRLSQ ISFR, SNLTI 60 (3)

1)

OVPAG 4	.....	.....	F.....	.....	.....	DV.....	.....	P.....	.....	G.....	I.....	60	
OVPAG 7	.....	.....	F.V.....	L.....	.....	N.....	V.....	Y.....	P.....	.....	D.....	V.....	60
OVPAG 3	F.....	V.....	L.....	N.I.....	V.....	Y.....	P.....	D.....	V.....	60
OVPAG 6	.....	.....	SI.....	.....	.....	E.....	.....	.....	A.....	.....	.....	G.....	60
OVPAG 1	.....	.....	.....	.....	N.....	.....	K.....	S.....	A.....	.....	A.....	.....	60
OVPAG 5	SV.....	RV.....	E.....	.....	MK.....	NV.....	QE.....	NE.....	SL.....	.....	KY.....	A.....	N.T.N.KMAF 60
OVPAG 9	.....	.....	.....	.....	M.....	.....	N.....	P.....	M.....	.....	A.....	.....	GL.....
OVPAG 2	.....	.....	W.....	L.....	IM.....	TKT.....	EI.....	RE.....	L.....	.....	E.QAN.M.D	D.ASDPK.ST	60
OVPAG 8	.....	.....	A.....	.....	I.....	.....	SN.....	A.....	.....	K.....	.....	G.....	T 60

Consensus	HPLRN..D..	YVGNIITGTP	PQEQQVVFDT	GSSDLWPS.	FC.S,T---C	S.H.RFRH.Q	120 (60)	
OVPAG 4	IR.TF	.	.	V	L.N.S.....	.I.V.....L.	117	
OVPAG 7	L...MK.IF	.	.P.	S	W.N.S.....	.TLV..K.R.	117	
OVPAG 3	L...MK.IF	.	.	A	..N.S.....	.TRV...R.	117	
OVPAG 6	T.K.LV	L	.	S	D	AIEA.....	L.T...L.	117
OVPAG 1	IM.ML	.	.	.	L	I N.L.P.KRP.	KQDK.K.H.	120
OVPAG 5	V.M..FL.LA	.P.M..RG	GEQ.R.	.	N	..T.PA.....	YS.IT.KYWE	117
OVPAG 9	S.YI.ML	T	.	K.	..	..T.PA.....	TQA...YR.	116
OVPAG 2	AL.MA	V	.	K.R.	..	K.I.PA.....	YT.IT.D.HK	117
OVPAG 8	M.IW.LL	L	.	R	..	L.N.S.....	AK.VM...RL	117

FIG. 2A



UVMO:003US
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 Replacement Sheet

Consensus	SSTFR.TNKT	F.I.YG.G.M.	KGVVAHDTV	IGDLVSTDQP	FGLS..E.GF	...PFDGVLG	180 (120)
ovPAG 4	.....T.....	.W.T..A.T.	.....	.....I.....	....MA.Y..	HGRR.....	177
ovPAG 7	.....T.....	.W.T..A.T.	.....	.....I.....	....MA.Y..	MDRR.....I..	177
ovPAG 3	.....LA...	.G.M..A.K.	....V.....	.....	....V.V.S..	EHRQ.....	177
ovPAG 6	.....P..R.	.S.T..C.TV	....V.....	.....	....TA.HVS	RCT.....	177
ovPAG 1	.....F..D.	.R.YF.S.T	....R.F.	.....	....IFL.SWL	D-I.....I..	179
ovPAG 5	....Y.H.T.P	.E.A..S.RI	..HL.Y..IQ	..N.....	....LV.Y..	NGL.....I..	177
ovPAG 9	....L..R.	.C.T..S.GL	..I.....	....N.....	....TLK.Y..	ENI.....	176
ovPAG 2	....L.RRP	.R.L..S.M.	..N..L.Y.....	....N.....	....LQQF..	DNA.....	177
ovPAG 8	....Y.L....	.M.F.RV.KI	E...VR....	....A..T	....IA.T..	ENTTL..I..	177
Consensus	LNYP..S..G	.IPIFDKLKN	EGAISEPVFA	FYLSKD.QEG	SVWMFGGVDH	.YYKGELNWV	240 (180)
ovPAG 4	....RQ.CCR	PT.....	Q.....	.....E.....	.....	R.....	237
ovPAG 7	....RQ.CSK	TKW.....	S.....	.....E.....	.....	T.....SL	237
ovPAG 3	....NL.FSK	T.....	.....	.....E.....	.....	S.....K...	237
ovPAG 6	....SI.FWS	T.....	.....	.....G.....	.....	R.....	237
ovPAG 1	....KI.FS.	A.....	F.....	....N..K..	.....	R.....	239
ovPAG 5	....N-IL.	A.....N..K	Q.....I..	....GTWN.	...L.L....K	A.....I	236
ovPAG 9NI.FS.	AV.....	L.....F.....E..	R..E.....	236
ovPAG 2	S..SLAVP.	T.....	Q.....I..TNKEN.	..L.L....	S..H..K..I	237
ovPAG 8	S..NT.CF.	A.....N-----	-----	-----	212

FIG. 2B

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Consensus	PL., AGDW, I.	VDRISM, R.	VIACS, GC, A	YDTG, S, I.	GP, RLVVDNIQ	KLIGA, P, G.	300 (240)
0VPAG 4	..VK,D,T.	Q.....,R,ED,D.	L...A,F,H	..G..I,D..SE,RDL	297
0VPAG 7	..VK,D,S.	H.....,R,E	.....D,D.	L...A,F,H	..G..I,D..	....SEQRDF	297
0VPAG 3	..IK.....,SV	R,S,T,K,E	.....D,R.	S,H,Q	..G..I,V.	....TM,Q,S	297
0VPAG 6	..IP,N,MV	HM,...YIE,N	.....A,K.	V...AAF,E	..KSQ...M.	....F..R,R,S	297
0VPAG 1	..IHP,E,S.	PL,...R,K	.....G,E.	G...T,L	..RTV,E...	....H..TQQCF	299
0VPAG 5	..IRV,...R.	R,H...KGK	.....G,E.	P,L,N	..T...T...	....R...M,L,P	296
0VPAG 9	..TK,...IV	RL,...IG,K	.....GD,E.	V...TAF,G	..RK..KK..	....RRR,N	296
0VPAG 2	.VSQTKS,L.	T,...NGK	.....G,EH,E.	T,L,H	..AGP,T...	....F,H,V,YDS	297
0VPAG 8	-----,	TMK,-----,E	.....D,R.	S,H,Q	..G.....V.	....H..TM,Q,S	258

Consensus	KHYVSCSAVN	TLPSIIFTIN	GINYPVPAQA	YILK,S,G,C	YT,F,...,RVR	.STE,WLGD	360 (300)
0VPAG 4	...I.....	.....	.....	.....G,T,H.	..A,RAK...	T...S.....	357
0VPAG 7	...I.....	.....	.....	.....G,T,H.	..A,RAK...	T...S.....	357
0VPAG 3	M,...P.	.....	.....	.....GFT,H.	..A,RAK...	T...S.....	357
0VPAG 6	..Y,P,V..	.....R..	S.....GR.	.....NHR,R.	..T,KENQWS	P..I,I...	357
0VPAG 1	EYF,...,Y	A,...V..	.....P..	..LV,D,R,Q.	.SP,QVN,AN	P,A,N,I...	359
0VPAG 5	....TI.	I.....	.....TL.....	....T,Q,G.	F,T,KGA..F	KHR,T.....	356
0VPAG 9	-----	-----	-----	-----DDA,R.	S,T,QEN...	L...S,L..N	323
0VPAG 2	EYM,...PVIS	I,...PV..	S,D,S...E.	Q,I,NSL	LSS,HGDN--	--,DK,I...	353
0VPAG 8	M,...P.....GR.DFR,R.	..N,KKKIA,	TF..Y...E	318

FIG. 2C



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380 380 380 380 380

Consensus	VFLRLYFSVF	DRGNDRIGLA	PAV
ovPAG 4M
ovPAG 7M
ovPAG 3	.....	..H.....	R.G
ovPAG 6	.....	..H.....	R..
ovPAG 1	R.....	.....	R..
ovPAG 5	I.....Y	..EHN..A..	Q.R
ovPAG 9	.....V.L...	.....	...
ovPAG 2	.....Y	...N.....	...
ovPAG 8	P.....	.....	...

FIG. 2D



boPAG 2 4 5 6 7 8 9 10 11 12

Hybrid (d25)	4	1	1	1	5	1	1	1	
Immuno (d25)		19							
RT-PCR (d19)	9			11	3		3	6	

FIG. 3



BoPAG:	1	2	3	4	5	6	7	8	9	10	11	12
1	100 100											
2	73 57	100 100										
3	91 86	74 58	100 100									
4	88 76	73 55	87 73	100 100								
5	86 75	60 61	86 74	85 76	100 100							
6	89 80	73 57	88 78	89 76	84 70	100 100						
7	87 79	73 56	87 78	86 71	85 72	89 77	100 100					
8	68 53	68 55	67 51	67 49	70 54	69 53	71 53	100 100				
9	87 77	74 59	88 78	85 68	85 74	87 74	86 71	68 53	100 100			
10	70 56	72 50	69 55	68 53	71 58	70 57	68 53	71 55	69 57	100 100		
11	74 59	77 62	73 58	73 56	76 62	73 59	75 59	72 56	73 56	72 57	100 100	
12	75 61	90 83	75 60	74 58	77 63	75 59	74 58	70 56	75 60	73 60	79 60	100 100

FIG. 4

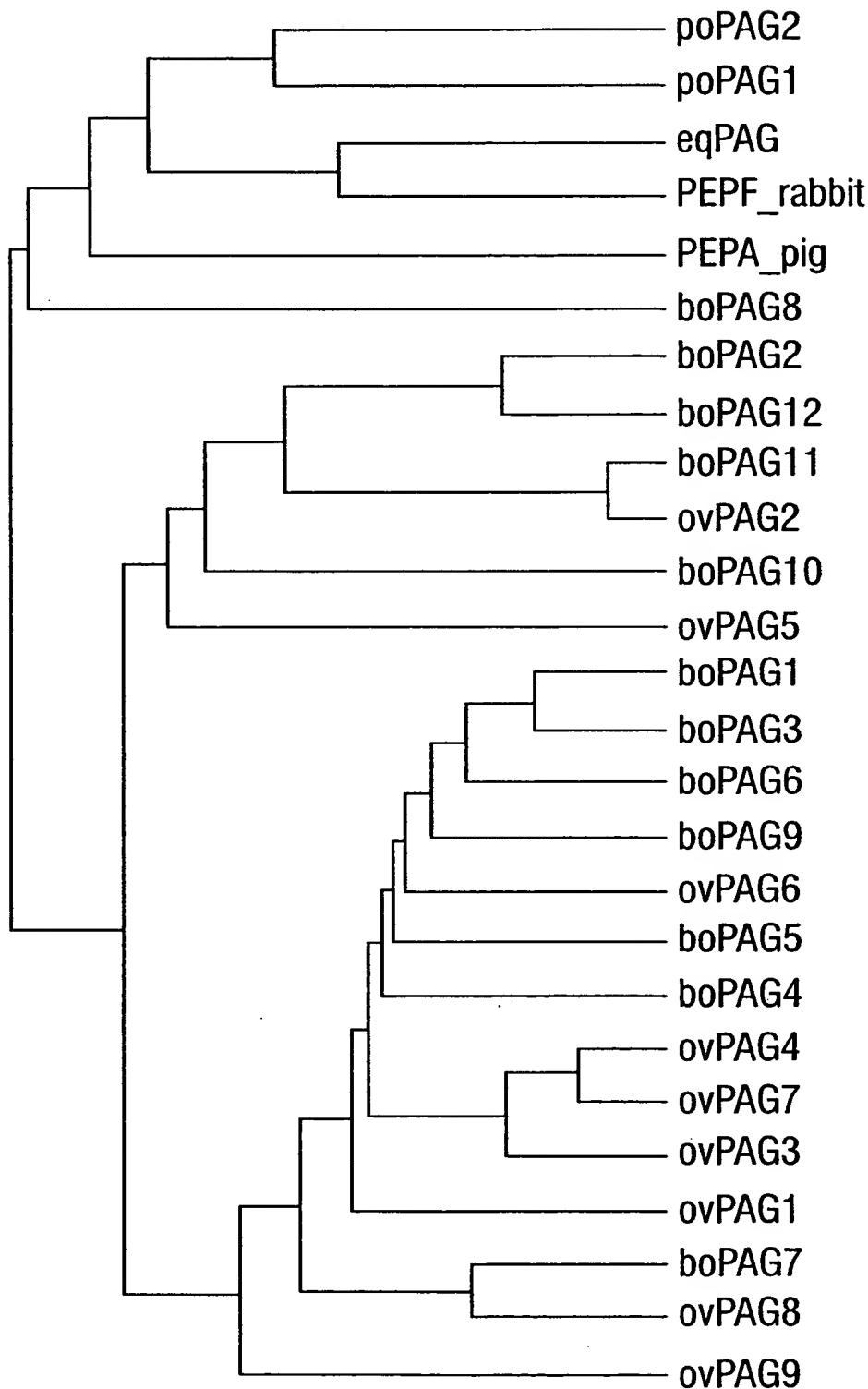


FIG. 5

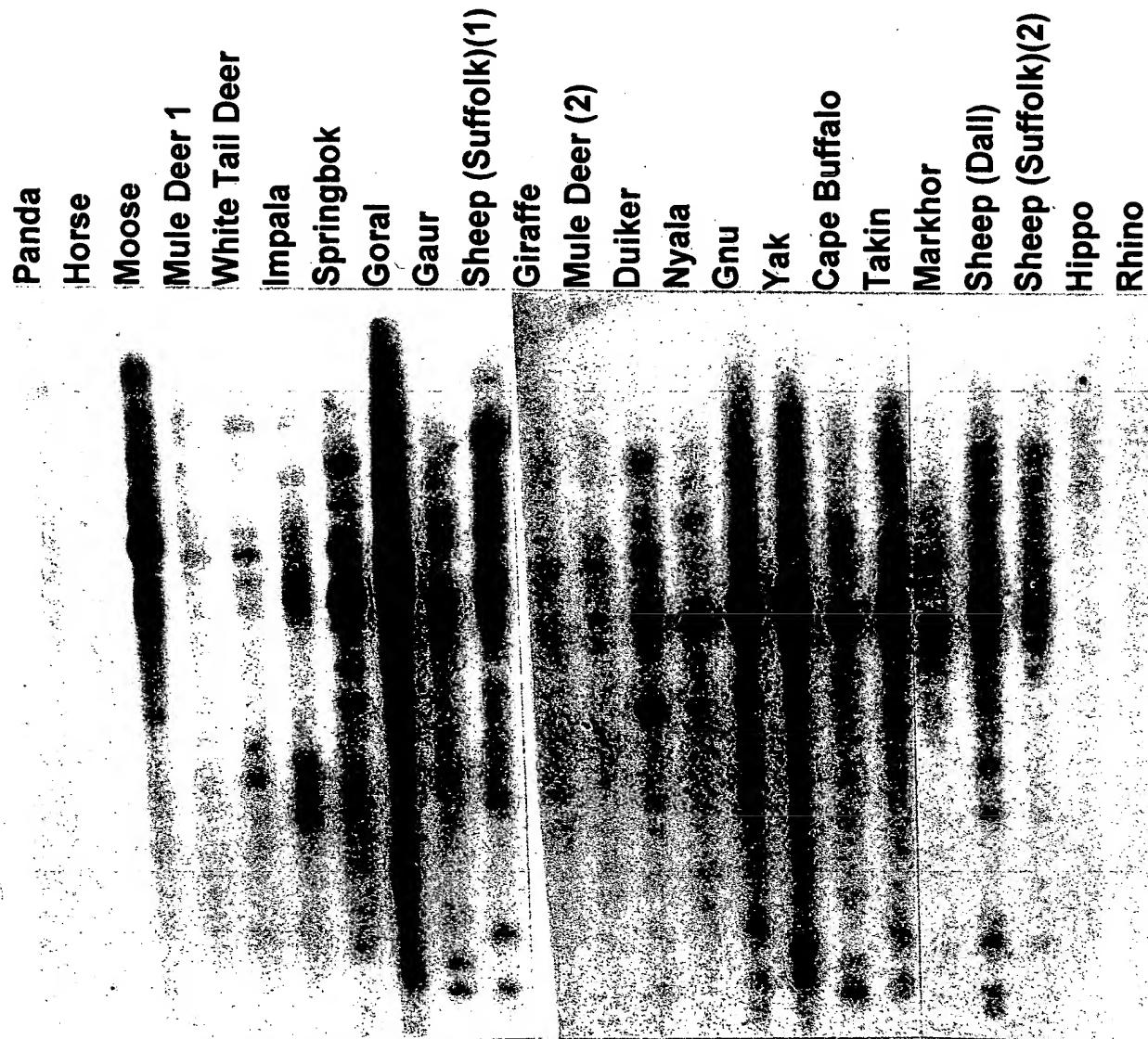


FIG. 6